

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995
From: Steve Slavsky <sslavsky@CapAccess.org>
Subject: [595] 10 Ohm Headphones
Message-ID: <Pine.SUN.3.91-FP.951128205137.20167C-100000@cap1.capaccess.org>

I don't know about 10 ohms, but Radio Shack sells lightweight 16 ohm headphones for \$9.99. They are called "Lightweight Mono Headphones" part # 20-210A and they work and feel great. A lot lighter than my heavyweight Heath low impedance cans. They even come with 1/4 and 1/8 inch mono plugs. Its hard to find mono headphones out there at a decent price.

Usual disclaimers apply.

73 & 72,

Steve Slavsky, N4EUK
Reston, VA

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995
From: ko6gf@ix.netcom.com (Denis Englander)
Subject: [598] Blown Century 21 fuses - Answer!
Message-ID: <199511290228.SAA05641@ix.ix.netcom.com>

----- Begin Forwarded Message
Return-Path: <74132.1320@compuserve.com>
Received: from dub-img-2.compuserve.com by ix7.ix.netcom.com
(8.6.12/SMI-4.1/Netcom)
id LAA17801; Mon, 27 Nov 1995 11:37:50 -0800
Received: by dub-img-2.compuserve.com (8.6.10/5.950515)
id OAA21126; Mon, 27 Nov 1995 14:37:10 -0500
From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995
From: Jeff Gold <JMG@tntech.edu>
Subject: [574] Cascade Help/suggestions
Message-ID: <01HY6GEU525E8ZGFN4@tntech.edu>

First:

this is in no way a criticism of the Cascade kit. I really appreciate the fantastic things(amazing) that the Norcal group

does. I have built every Norcal 40 that has come out.. and each worked fantastically.. and love operating them. I love the journal and have waited quite a long time to build a SSB kit.

The problem is that I have been collecting errata for building the kit.. the amount of paper I now have consumes a section of my shack. Many have been kind enough at various stages to post suggestions/corrections and such. Others have summarized what has been corrected at different times. Doug sent out a nice set of corrections direct.

The problem is that to ME, it is QUITE confusing. When I sit down to build.. usually like to do it as therapy. I have collected and organized the corrections and then gone back thru the manual and carefully made corrections in it.

Today I downloaded the Nov version of the Errata collection. I believe it to be about the same size as the manual. I am frankly afraid to start building the kit.

Has anyone recently built the kit since the errata and mods have come out.. how have you gone about the various corrections.. what works and what doesn't

Thanks for any help.. guess I am just a little anxious building this one.. hope to get a LOT of use out of it if I can get it working.

73

Jeff, AC4HF

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995
From: Bensondj@aol.com
Subject: [599] Collapsible antennas
Message-ID: <951128213222_37430942@mail04.mail.aol.com>

Hi gang-

On Nov. 27, Jim Fitton (W1FMR) wrote:

>>I bought a reasonably lightweight 24 foot (three 8 foot
>>sections) telescoping pole from Home Depot yesterday
>>for \$33.

Great find! And yet another potentially useful offering from that same

New England QRP Club, information
available on request by sending me a
S.A.S.E. or via E-mail.

e-mail : GREGOIRE@VALLEY.NET
packet : AA1IK@WA1WOK.FN43FE.NH.USA

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995
From: ae4ic@nr.infi.net (BOB KELLOGG)
Subject: [569] CQWW REPORTS
Message-ID: <199511281900.0AA05389@moe.infi.net>

Nuts to you guys who worked everyone in the world qrp! I was on my Sierra for 3-4 hours, and did a lot of listening. (20WPM is about all I can handle, I've just been on the air since Feb.) Worked 7 stations, (didn't realize until Sun eve that the W's would want to work me), 4 countries. Three contacts on 10 meters - a first. I had just as much fun as you did with my <1.5 watts and G5RV. So there!

Bob Kellogg, AE4IC
Bob Kellogg, AE4IC

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995
From: Robsparks@aol.com
Subject: [597] FS: MFJ 9040
Message-ID: <951128211352_37403661@mail04.mail.aol.com>

I am posting this for someone else. Please respond to seller only:

MFJ 9040 for sale. \$123. Call Charlie (WE0R) 314-544-5584 after 7pm CST weekdays or after noon weekends.

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995
From: Robsparks@aol.com
Subject: [572] Fwd: ARK40
Message-ID: <951128144536_36880033@emout05.mail.aol.com>

Forwarded message:

From: grao@umbc.edu (Dr. Govind Rao)
To: robsparks@aol.com
From: qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [592] GM-30 Review de K5FO
Message-ID: <199511282336.XAA23986@chuck.dallas.sgi.com>

Review of SWL GM-30 (Preliminary)
Chuck Adams, K5FO

MFR: Small Wonder (tm) Labs
Address of MFR: Dave Benson, NN1G
80 East Robbins Ave.
Newington CT 06111
Designer: Dave Benson, NN1G
Model: Green Mountain 30 (GM-30)
Size: 3.5" x 5.0" board
Weight: 3.25 ounces for board and onboard parts
PC board: Double sided, plated-through, solder masked (green),
and silk-screened
Manual: 18 pages 8.5x11" double sided
Power : 12 to 15VDC
RX Drain: not measured yet (estimated 30-35mA)
TX Drain: " "
Modes: CW only
Kit?: Yes. PC board and parts.
Bands: 30M and 20M at the present time
LO/VFO: Heterodyne Osc with 18.100-18.165MHz out
Drift: 5 Hz first minute, 62Hz after 30 minutes
Dial Range: Builder supplies markings
RX: SuperHet
XMT: Yes. 0.050-3.0W output internally adjustable
Filter: Four crystal filter at 8.000MHz
Selectvty: about 700Hz
RIT: Yes
Gain: Audio.
AGC: No
Preamp: No
Atten: No
SPKR: No. Did use with Radio Shack XTS 3 Cube Speaker.
Meter: No
S Tone: No. Signal monitoring
VFO: Yes. Covers 65KHz of 30M band.
Output: 0.05-3.0W adjustable internally
Measured 1.9W out max with 12.74V

Internal Keyer: No
QSK: Yes
Price: \$72.00 US
Availability: From NN1G
Options: None
Date of Review: November 28, 1995
Author: Chuck Adams, K5FO
Comments: Another fine rig from NN1G.

The manual is well written and the board is very nice.
Dave has done another wonderful job is getting the kit together.

Built the Hetrodyne Osc first per his instructions and it came up first time and easily adjusted for maximum output. Then continued on with rest of the board.

After getting everything soldered in and double checking for missed solder points, shorts, etc. and then using the toothbrush (not the one I brush with) with water to remove the solder flux from the 63/37 solder, I install the board into bottom half of the shell case with front and rear panels attached via the controls.

The kit does not have the case, connectors, and required three pots of 5K, 10K, and 100K (linear) which I got at Radio Shack.

Hooked up everything to 4Ahr Gel-Cell and adjust receiver. This receiver has much greater sensitivity than the SWL-30 (to be expected due to additional gain with IF amp in the GM-30). First station heard was a KK6 in Santa Cruz CA, then a W2 in Beesleys Point NJ, and the third station heard was ZK1DI.

I also discovered that I now have to turn off the computer on the desk top due to hash RFI from it. Didn't notice this before. So I know that the receiver is extra sensitive.

Turned system off for an hour then came back with frequency counter for drift measurements. First minute gave 5 Hz drift and after 30 minutes drift had settled to 62Hz. So it is super stable. Oh, calibrated counter with 3.600000MHz out of GC-1000 Heath clock both before and after to make sure that the counter didn't drift. Sure enough it didn't.

Checked out the transmitter and it's adjustable from 0.05 to about 2W out. When checking the keying I got the scare of my life when I heard a chirp. Turns out the gel-cell was low and I switched to a 20Ahr to stabilize the voltage to 12.75V and all was fine. After charging the

gel-cell found that it was good too.

Got the OHR WM-1 and set the GM-30 for 0.95W output. Since Saturday have worked about 20 stations (not enough time on the air yet) and all have given super reports. Worked a KG4 on 30M this a.m. at 6:15 CST (1215Z), so 30M has been open. In fact I've been hearing stuff on at midnight local.

I do have a small click in phones on individual elements of keying, so think that the keying circuit will require an additional cap to soften the make/break. More to follow as time permits.

Doug Hendricks in a phone conversation the other day mentioned the R/S speaker, so I stopped by and picked one up. Rather pricey at \$16, but it is nice. The GM-30 had the audio power to drive it to comfortable levels in a 15x18' room and with headphones I do not ever have to run the gain over about a 1/4 to 1/3. On the SWL-30 I often had to run at 80% or better. So the new audio circuit that Dave has is super. The speaker used was the XTS 3 Cube Speaker System from your friendly Radio Shack Dealer.

Remember previous postings by many on the SWL-XX burping when powered off. I figured the audio section was going into oscillation when powered off. I was right. You can get the SWL-30 to go into oscillation when powered on by having a strong signal come on while you have the volume up. I discovered this the hard way when monitoring the keying of the GM-30 next to the SWL-30. Don't do this at home kids.....

I think we are going to see \$75 as the price point, what with Roy's NW80/30 series and others, for single band high performance kits without a case. With case and all it looks like \$100 is the price. As soon as I get the Explorer II we can run a comparison on receiver specs. There is no comparison on sensitivity with the NorCal 30a since the NC30a does not have an IF section.

Stay tuned for further tests.

dit dit

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Chuck Adams (K5FO CP-60) adams@sgi.com
Box 181150, Dallas, TX 75218-8150

From qrp-l@lehigh.edu Wed Nov 29 03:11:00 1995
From: bfinch@asp.vet.purdue.edu (Robert Finch)

Subject: [555] heathkit manuals

Message-ID: <9511281440.AA12358@asp.vet.purdue.edu>

uh....ask heath waht they are selling u EXACTLY...
turns out there are alot of manuals they are selling
which are reprints WITHOUT the construction info and
drawings.....not nearly as gud as a full manual,
especially in sum of the more involved kits...u might
do alot better with manuals from one of the other
snail mail sources.....the prices are gud (as gud as
heathkit it seems) for the vendors listed in amateur
radio trader magazine.....

just my two cents worth

baab,n6cxb

obqrp.....ran ss foir a few hours sunday...used the
power needed, but DID mange a few qrp contacts...
it really is a kick to get the high speed 'machanical
sounding ops' to 'studder' when u come back with a 1
watt tagged on the end of ur exchange....hi..hi

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995

From: KE3FL@delphi.com

Subject: [577] Help with 4040 Kit

Message-ID: <01HY6L0Z05MQ9C261E@delphi.com>

NN1G, N1NPI, W1FMR, or anyone who knows:

I am building my "The QRP New England '30-40' Transceiver Kit"
My kit is for 30 meters. I have a few minor questions:

For the toroids L1, L2, L3, L4, L5, L6, and T1 the instructions do not
say how many turns, loops, to put on the cores. Am I suppose to have
an inductance meter?

What are the differences between the 40m version and the 30m version?

Has the suggested circuit been completed for an RIT? If so, how can I
get a copy?

tnx & 73 de KE3FL/Phil

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995

From: CamQRP@aol.com

Subject: [557] Holiday Spirits Sprint

Message-ID: <951128093106_118528125@mail06.mail.aol.com>

Gang -

'Tis the season, once again. The Holiday Spirits Homebrew Sprint takes place this Sunday. This is a homebrew sprint, in which you get bonus points for using that little box you slaved over long and hard. So get some reward for your efforts.

Please note that a State (or Province or Country) may be worked on more than one band for S/P/C credit. That is to say, if you work W8MVN on 80, 40, and 20 meters, you have 3 S/P/Cs. This assumes that Ernie stays put in Ohio. I mention this only because most of the scoring mishaps involve this rule, and I'm always looking for ways to streamline this job and get on with building more homebrew gear.

See you Sunday,

Cam

QRP ARCI HOLIDAY SPIRITS HOMEBREW SPRINT

Sponsored by QRP ARC International. 2000 - 2400 Z, DECEMBER 3, 1995. CW only. Entries may be Single Band, All Band, High Band (20, 15, 10 or 6) or Low Band (160, 80 and 40). Work stations once per band. Exchange signal report, state/province/ country, and QRP ARCI number if member, or power output if non-member. 1.810 3.560 3.710 7.040 7.110 14.060 21.060 21.110 28.060 28.110 50.060. QSO points: 5 points / QSO with ARCI member, 2 points for non-members same continent, 4 points for non-members different continent. Bonus points awarded for using homebrew equipment, apply for each band on which homebrew equipment was used: +2000 points for HB transmitter; +3000 points for HB receiver; +5000 for HB transceiver. A piece of equipment is considered to be homebrew if you built it. Final score is total of QSO points (all bands) multiplied by total of states/provinces/countries (all bands) times power multiplier (> 5 W output, X1; <5 W output, X 7; <1 W output, X 10; < 250 MW output, X 15), plus bonus points. Include description of equipment and antennas used. Mail entries by JANUARY2, 1996 to QRP ARCI Contest Mgr, Cam Hartford, N6GA, 1959 Bridgeport Ave., Claremont CA 91711. Or send by e-mail to CamQRP@aol.com.

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995

From: David Adams <dave@flowserver.stem.com>
Subject: [551] HW-9 manual needed
Message-ID: <9511280329.AA02642@flowserver.stem.com>

Greetings! I just purchased an HW-9 over the net which sounds like it might need rebuilding. Can anyone supply me with a full manual? I'll pay!?!?

73 de dave, n9uxu

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995
From: cmassey@onramp.net (Cleve Massey)
Subject: [559] MFJ 9020 or 9406
Message-ID: <v02130401ace0381b4a86@[205.240.209.87]>

Has anyone used the 9020 mobile? Was wondering about it's handling of mobile ignition noise!!! Not that I want to work 20 mobile, but the new 6 mtr. 9406 is reportedly the same design and that is the one I want to put in my truck...guess a NB could be added later.

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995
From: paxton@sound.net (frank paxton iii)
Subject: [561] need COLORADO QRP club PHONE NUMBER
Message-ID: <199511281615.KAA00253@sound.net>

i have a friend wanting to contact and JOIN the colorado qrp club in time to order the Explorer II on the november discount.

i need to give him a PHONE NUMBER. time is short. thank you !

ng0n.

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995
From: roy.gregson@usfamily.wa.com (Roy Gregson)
Subject: [556] NW8020
Message-ID: <9511280600093659@usfamily.wa.com>

Hi Gang.....Want to thank you all for the better than expected response

to the re-birth of the NW8020. I was made aware that I did not cover some of the vital statistics like I should have, so here some answers to the many questions---

- *the PCB is 5" X 5" not crowded, silkscreened and solder masked for easy assembly

- *only 4 toroids to wind

- *Assembly is step by step with testing each stage before moving to the next, so you will know the rig will work when completed.

- *The receiver has double tuned front end for better image rejection.

- *Main tuning cap has a 8:1 vernier.

- *4 crystal ladder filter with optional variable bandwidth feature-parts furnished.

- *"RIT is built-in.

- *Audio drives a 5" speaker.

- *Smooth full QSK no relays, you hear signals between sending letters.

- *5 watts output adjustable down to MW.

- *No AGC.

Cabinet not furnished, but a Radio Shack P/N270-253A is a perfect fit and instructions make drilling or punching easy.

- *Provision for easily adding the KC-1 Keyer/Freq Counter to rear panel.

- *Built in meter option that may be used during alignment. Meter not furnished. May be used to monitor transmit output.

- *Optional audio filter available. Been called a "worthwhile" addition.

- *"Z" Match ATU in the works that will be in a matching Radio Shack cabinet.

Other products also being worked on, one available now is the "Ladder Grabber", a real boon to using 450 ohm ladder line that prevents breakage of the ladder line in wind and weather. Plastic insulator material that resists UV rays, and all hardware is stainless steel.

The prices are ----

NW8020-----\$75.00 + \$5.00 S&H

Audio Filter----\$20.00 + \$1.50 S&H

Ladder Grabber---\$9.95 + \$1.00 S&H

Make checks or money orders to EMTECH

Roy Gregson W6EMT

13848 SE 10th

Bellevue, WA. 98005

206-747-6810

Almost forgot to mention that I'll do my best to get your NW8020 up and running if you should have a problem. A flat rate fee of \$25.00 + \$5.00 S&H Including any parts necessary.

Roy W6EMT

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995

From: "Tim Stabler" <TSTABLER@iunhaw1.iun.indiana.edu>
Subject: [590] OHR
Message-ID: <AB5FF1CCE@iunhaw1.iun.indiana.edu>

Well, here I am aligning my Explorer (again, thanks to all who responded) and I have a new "problem". Where does one get 8 ohm headphones??? Dick, at OHR, suggested a pair from Kenwood. He thought they were \$60 but AES in Milwaukee (and other places) says \$80- for the pair. I realize they are probably excellent phones but is there something else??

What about using a little button earphone that comes with cassette machines??

What about using the little amplifier from Radio Shack?? Didn't someone here say it would then drive a speaker??

Thanks all-----

72 de Tim WB9NLZ

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995
From: "Bill Kelsey - N8ET - Kanga US" <kanga@brutus.bright.net>
Subject: [591] Pictures on Kanga Web Page
Message-ID: <199511282336.SAA13155@brutus.bright.net>

I just moved some pictures to my web page - the URL is below.

connect to my main page - the pointer to the list of pictures is near the end of the page.

The Kanga 6m cw TX
the Super Tee ATU
completed boards from the Hands RTX xcvs
Hands Kits as they are packaged for shipment
the Kanga LCK xcvr
the KK7B miniR2 Receiver
the KK7B R2 Receiver

They are kinda ugly on my monitor at home with limited color capability, but on the one at work they are not too bad. Let me know what you think.

Note to K0JD - John - feel free to move a copy of the R2 pic to your page, or point to it from there.

73

73 - Bill Kelsey - N8ET

Kanga US

kanga@bright.net

419-423-4604

<http://qrp.cc.nd.edu/kanga/>

From qrp-l@lehigh.edu Wed Nov 29 03:11:00 1995

From: Pat Taber <ptaber@logiccraft.com>

Subject: [560] QRP philosophical questions

Message-ID: <199511281608.LAA107579@nss2.CC.Lehigh.EDU>

An exchange of mail has left me with a couple of philosophical questions I wanted to put up for comment because I'm confused about them in general. This isn't bait or ax-grinding, I'm just not settled in my mind about them. I'll indicate my overall leaning, but I could really accept answers either way as reasonable.

Is QRP into a high-ERP antenna system still QRP? It seems to me that it is -- that it's "the QRP right thing to do" to try and get the most out of your antenna system. But if my five watts into a good antenna system can crush a signal from 100 watts into the infamous "cruddy dipole" am I QRP? If I put 5 watts into the Aracebo(sp?) dish, am I QRP?

If I'm listening for the fox, but don't hear him and someone asks if the frequency is in use, what's the Right Answer? To my mind, if I've heard him and am just waiting my turn, the freq is in use. If I haven't heard him yet, it's not.

>>>==>PStJTT

```
=====
Patrick Taber                      Email: ptaber@logiccraft.com
Principal Software Engineer         Phone: (603) 880-0300
Logiccraft Information Services     Fax:   (603) 880-7229
22 Cotton Road
Nashua N.H. 03063                 Also known as: KC1TD
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From qrp-l@lehigh.edu Wed Nov 29 03:11:00 1995

From: Jim Eshleman <lujce@hooch.CC.Lehigh.EDU>

Subject: [571] QRP-L member numbers

Message-ID: <95Nov28.141758est.14493-2+31@hooch.CC.Lehigh.EDU>

Gang,

At 1200 EST (convert to your favorite timezone) December 1 you can obtain a QRP-L member number by e-mailing the following command, in the BODY of the e-mail, to listserv@Lehigh.EDU:

RUN QRP-L X GETNR callsign

where "callsign" is your callsign, or use the word NONE if you don't have one.

Your number, e-mail address, and callsign will be recorded in the file:

ftp://ftp.lehigh.edu/pub/listserv/qrp-l/misc/member_numbers.txt

or you can obtain the file from the server via e-mail:

GET QRP-L/MISC MEMBER_NUMBERS.TXT

First come, first served...Only one per customer, please...etc.

73

Jim N3VXI

From qrp-l@lehigh.edu Wed Nov 29 03:11:00 1995
From: RHILTO@acxiom.com
Subject: [575] Re[2]: QRP philosophical questions
Message-ID: <eda3ee30@acxiom.com>

>Pat Taber:

> Is QRP into a high-ERP antenna system still QRP?

>Paul wb8zjl :

>Yup. Though in MY opinion it is not in the SPIRIT of QRP, to do more, with less.

Paul, is that a misprint? I always thought the spirit of QRP was to do as much as the big guns while using more appropriate power levels...

Bob, ki5ez

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995
From: ko6gf@ix.netcom.com (Denis Englander)
Subject: [600] Shakey Century 21 - Answer!
Message-ID: <199511290238.SAA03996@ix10.ix.netcom.com>

Dear Denis,

Thanks for the help! Derrill and I took the Ten-Tec apart last night and found a loose screw on the VFO. (Some say Ham operators might have a screw or two loose, also!)

So we tightened the screw and dabbed a little bit of cheap fingernail polish on all the screws mounting the VFO. . . . Voila! . . . pound on table with fist, no drift, no chirp. Solid like rock.

Derrill promptly worked a station in Alabama on 40 meters with good reports and we all are living happily ever after.

CU at Livermore this Sunday. Please call on LL a day or two before so we don't miss you there.

Thanks again.

73,

JD

PS: Our humongous 15 meter antenna is almost finished. Full report on Sunday.

PPS: What is your CompuServe address?

Wow people, just posted the help cry, but these Ops already tore into the rig and fixed the problem! Guess I'll have to be faster on E-Mail, or at least look ahead a few messages down the list before forwarding.

Hi!

Oh well, for those that enjoyed the question, or those that would like an answer for themselves...this one might apply to somebody else's rig.

Guess I'm guilty of the old saying..."The only dumb question is the one that wasn't asked." Sorry for the band space, and the charge for the bytes.

72/73 de Denis - K06GF

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ko6gf@ix.netcom.com - Denis Englander
Packet: K06GF@W6PW.#NOCAL.CA.USA.NOAM
Norcal #34:ARCI #8682: (kd6eti 01/92)

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995
From: burdick@interval.com (Wayne Burdick)
Subject: [588] Sierra availability
Message-ID: <v02130501ace140074f4b@[199.170.106.28]>

Bob Dyer at Wilderness Radio said there was some confusion about the Dec. 1st deadline for the Sierra discount. Apparently some people thought that this was the deadline to buy a Sierra at all. This is not the case. Bob will have plenty of Sierras in stock around the beginning of the year. (He also has NorCal 40As and KC1s in stock.)

73,
Wayne

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995
From: Bruce Robertson <brucerob@epas.utoronto.ca>
Subject: [552] soldering double-sided rigs and the ROM
Message-ID: <Pine.SGI.3.91.951127231113.10138B-100000@blues.epas.utoronto.ca>

There are probably just enough people on the list from Southern Ontario

and nearby to justify this notice. If not, read on for the OBQRP below.

I've had occasion to spend about a day a week recently in the collections of the Royal Ontario Museum in downtown Toronto. Usually I'm in the Greek antiquities section, but I saw a poster for a presentation on the history of T.V. and took a look. It comprises an amazingly complete display of early models well discussed, and I recommend it highly. No date of closing was given, but it began in mid-Nov, so I imagine it will be around for a while. If you come to town especially for it, I'll give you a *free* lecture on the history of Attic vase painting too :-). (Or maybe we can arrange a meeting of QRPers if that's more to your taste.)

I've started the soldering on my miniR2 rig kit. This is a very exciting kit to work on, since it is so different from other designs. It's perfect if you've built a couple of superhets or transceivers and know your way around a pc board and schematic. Anyway, there are plated-through holes on this puppy and I have a question about them. I noticed that on some of the joints the solder wicked right through to the other side and up a bit of the lead of the component. For grade A joints should I work towards this degree of bonding, or is it still ok to not see any solder on the other side?

Really, I'm not a perfectionist in any other regard!

72, VE3UWL

Bruce G. Robertson Dept. of Classics, U. of T.

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995
From: "Nick Franco" <NICKF@rcadmin.nov.add.bnl.gov>
Subject: [586] SW-30 What a kit!
Message-ID: <MAILQUEUE-101.951128171844.288@rcadmin.nov.add.bnl.gov>

Hi All,

Been hangin' in here week after week and not hearing the fox. Oh Well! I went away to the folks house in the Roanoke, Va. area for Thanksgiving week (no radios, no FoxHunts, nothing but eating). I came back and last night finally went down to the shack (my shack is in my wife's laundry room). I looked around and took out the SW-30 I built for Chuck's propagation study this summer. I turned it on and there was DL2???/HI3 calling CQ. I tuned my wire for 30 meters and answered him. He immediately returned with 599 (naturally). I gave him back the same (I think my report to him was more accurate and I don't even have an S meter). I told him I was 1W

in NY. He said FB on 1W and signed with me. I love that rig. I was using my 125 foot center fed wire. It seems to always play nicely for me on all bands. It was a buy some number 12 stranded wire, cut in half; hook up insulators and stub feed the thing with about 30 feet of 300 ohm TV twin lead to a 4:1 balun and coax into the house; don't measure anything and hope it works antenna. Best thing I ever did. Anyway, after the QSO with Dominican Republic (I think), I gave the FoxHunt schedule the Italian salute and went to bed. I'm ready for tonight! Hope I hear something out there. CUL es Taleho!

72
Nick

.....
Nicholas J. Franco Systems/Network Support
RHIC Project Building 1005, UPTON, N.Y. 11973-5000
tel: (516) 282-5467 fax: (516) 282-3674
Ham Call: KF2PH QRP-NE # 349

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995
From: JCoote@aol.com
Subject: [593] Testosterone, insecurity and QRO advertisements
Message-ID: <951128195612_119137401@emout06.mail.aol.com>

While looking through my amateur magazines and catalogs, it really struck me how advertisers use their bag of tricks.

It's pretty funny when you read the text in some of these antenna and amplifier ads. The phrases really protrude... er, stand out.

If you buy these products you too can STOMP, CRUSH, PUNCH THROUGH the competition. The ads appear to be aimed at weekend warriors- (QRO contesters) as well as those unfortunates we sometimes refer to as jammers. If your co-workers and boss laugh at you, your diminutive compact can't accelerate above 50, and your kids won't obey your orders, don't worry.... you can become a radio rambo on weekends and "punch through those pile-ups" as one amp advertisement said.

Comedian Tim Allen would have a field day with this stuff.

72, Jay
WB6AAM

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995
From: Mike Robinson <miker@cc.com>
Subject: [587] That's what happened!
Message-ID: <9511282226.AA24289@voder.nsc.com>

Thanks to all that responded to my antenna
quandry. And FAST too. You guys are amazing!

The answer is:

For my purposes, installing a tuned 40m dipole,
the ladder line was mismatched into the system.

The first simplest thing to do, would be to make
the ladder line a 1/2 wave length of my intended
frequency. 7.040MHz.

The second simplest thing to do, would be to
include a 4:1 balun between the coax and the
ladder line.

The last simplest thing is to exclude the ladder
line and run the coax to the feedpoint. With
a coffee can balun (9 turns of coax at 6" diameter)
the narrow mismatch between a 72 ohm dipole and
52 ohm coax is minimized.

=====
7.3 de Michael aa0ub | QRP:
miker@cc.com Norcal #857 CQC #180 | "UR HB 5W FB HR 72"
=====

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995
From: scicior@cp.mnet.uswest.com (Steve Ciciora)
Subject: [570] was someone looking for a cheep QRP rig for a new ham?
Message-ID: <9511281912.AA05114@sp5-316.nts.uswest.com>

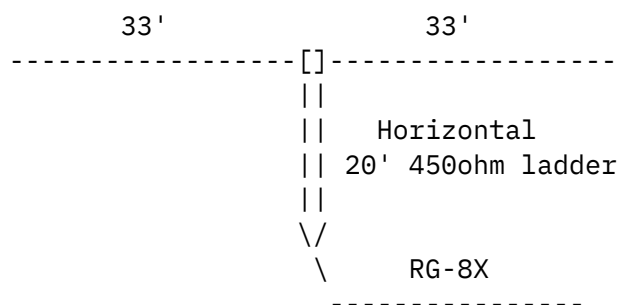
I seem to remember someone posting that they were trying to help out a new
ham on a limited budget. I think I remember he was looking for a good, used
qrp rig. While I don't have a rig for sale, please email me privatly. I think
I might be able to help this guy out.

Steven Ciciora

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995
From: Mike Robinson <miker@cc.com>
Subject: [576] What happened?
Message-ID: <9511282034.AA20255@voder.nsc.com>

Antenna experts,

I'm putting up a dipole for 40m. I've done this before, but always using coax right up to the feedpoint. But this time, I needed to get from the feed point to drop point about 20' away horizontally, before switching to coax. My goal was to get to the feed point with as little weight as possible. So I used 450ohm ladder line from the feedpoint to the drop point.



My plan backfired. The legs are about 33' long. Normally a good starting point to then be tuned by adjusting, later. But the 20' feed of 450ohm ladder line changed the characteristics completely.

Using my MFJ259 swr analyzer, the antenna is resonant at 29MHz. There is no dip at or near 7MHz.

I've already resolved to run coax to the feedpoint. BUT, what did the ladder line do to the characteristics? I've never used ladder line before.

What happened?

=====
7.3 de Michael aa0ub | QRP:
miker@cc.com Norcal #857 CQC #180 | "UR HB 5W FB HR 72"
=====

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995
From: W3HMS@aol.com
Subject: [594] Re: Cascade Help/suggestions
Message-ID: <951128201641_37319062@mail06.mail.aol.com>

Jeff.....if the errata is about the size of the Manual, I would like to buy a new manual and save the hassle.72/73, John

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995
From: teda@lexis-nexis.com (Ted Albert)
Subject: [568] Re: Century 21 blows fuses
Message-ID: <199511281806.NAA17258@rain.lexis-nexis.com>

I had this same behavior with my Century/21. Turned out the final amplifier transistors were shorted. A new set of transistors cured the problem.

> Howdy...
>
> Asking for another ham:
>
> His Ten-Tec Century 21 blows fuses.
>
> Anything pop into mind on this one? Seems to happen as soon as he
> turns on the power supply.
>
>> 72/73 de Denis - K06GF
>

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995
From: GREGOIRE@VALLEY.NET (ERNEST GREGOIRE)
Subject: [581] Re: CQWW REPORTS
Message-ID: <199511282153.QAA17277@dartvax.dartmouth.edu>

>Nuts to you guys who worked everyone in the world qrp! I was on my Sierra
>for 3-4 hours, and did a lot of listening. (20WPM is about all I can
>handle, I've just been on the air since Feb.) So there!

in that we can catalog all this great stuff. What I like about your template is that it answers questions of features the unit may or may not have - ie AGC, RF Gain control etc.

Anyway could you please post your qrp form again (ascii format) so I can use for future reviews (I have an OHR Quad bander, OHR Explorer II for 30 meters and a SWL GM-20 backed up on the bench with a couple of Wilderness KCT-1).

Thanks again Chuck.

73/72 Bob V01DRB/WA6ERB (Cheep, cheep - Chickadee dit dit)

>

```
-----
| Bob Gobrick - V01DRB/WA6ERB/VE2DRB - Newfoundland, Canada |
| QRP'er Galore - ARCI, GQRP, NORCAL, NEQRP, COQRP, MIQRP, NWQRP |
| Internet:      rgobrick@public.compuserve.nf.ca |
|                bgobrick@terra.nlnet.nf.ca |
| Compuserve:   70466.1405@compuserve.com |
|-----
```

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995

From: Joseph Dabkoski <74132.1320@compuserve.com>

Subject: HAM RADIO AND EPISTOMOLOGICAL QSOs

Message-ID: <951127193501_74132.1320_BHR104-2@CompuServe.COM>

Dear Denis,

Thanks for all your help. Fixed power supply problem. Main bridge rectifier was shorted. Rig is back on the air.

We must have moved something or other because now the rig is chirping.

. .
Seems to be that any little vibration (like pounding brass) makes it jump a bit in frequency. Any ideas?

73,

Joseph

Ok people...now the next problem with the Ten-Tec Century 21.

I'm thinking maybe a loose tube, if it uses tubes! Har!

Or, maybe a poor voltage regulator...worse yet, one of those hard to find cold solder joints!

Anybody else care to guess?

Thanks for the help, for this group is "All-Knowing" - maybe the logo should have "The Wisdom Bunch" somewhere on it! Or even, "Eureka!" (Oh-oh, that's the Californian in me speaking. Hi!)

72/73 - thanks again... de Denis - K06GF

--

ko6gf@ix.netcom.com - Denis Englander
Packet: K06GF@W6PW.#NOCAL.CA.USA.NOAM
Norcal #34:ARCI #8682: (kd6eti 01/92)

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995
From: David Speegle <dspeegle@dialin.ind.net>
Subject: [553] Re: HW-9 manual needed
Message-ID: <Pine.SUN.3.91.951128051126.8815A-100000@dialin.ind.net>

Dave: Here is an ad that appears in nuts and volts magazine. "Heathkit company is selling photocopies of most Heathkit manuals. Only authorized source for copyright manuals. Phone: 616-925-5899, 8-4 ET." I hope that this helps you out. Dave NE9F

```
=====
| David Speegle           Email Alias: David.Speegle@dialin.ind.net
|
|
| 311 S West St.
|
| Argos, IN 46511
| Phone: 219.546.3848 FAX:
=====
```

On Mon, 27 Nov 1995, David Adams wrote:

>
> Greetings! I just purchased an HW-9 over the net which sounds


```
> like it might need rebuilding. Can anyone supply me with a
> full manual? I'll pay!?!?
>
> 73 de dave, n9uxu
>
>
```

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995
From: GREGOIRE@VALLEY.NET (ERNEST GREGOIRE)
Subject: [563] Re: QRP philosophical questions
Message-ID: <199511281655.LAA29680@dartvax.dartmouth.edu>

>
>Is QRP into a high-ERP antenna system still QRP? It seems to me that it is
>-- that it's "the QRP right thing to do" to try and get the most out of your
>antenna system. But if my five watts into a good antenna system can crush a
>signal from 100 watts into the infamous "cruddy dipole" am I QRP?

>>>>==>PSt.JTT

>Patrick Taber	Email: ptaber@logiccraft.com
>Principal Software Engineer	Phone: (603) 880-0300
>Logiccraft Information Services	Fax: (603) 880-7229
>22 Cotton Road	
>Nashua N.H. 03063	Also known as: KC1TD

Hello Patrick,

Antennas are everything, I chose to spend \$4.00 on antennas for every \$1.00 spent on radios. If I choose to make my system as efficient as possible that is my option. I use 9913 for coax on a 150 foot run.

I would use 7/8 inch hard line if I could afford it. It's what floats your boat, that's all. 5 watts is 5 watts, It's my choice if I want to send it into a 7 element Th7 at 70 feet or a bed spring laying on the ground.

```
de AA1IK          N.E.-QRP-C. # 202    ( Lead by example, It is better to      )  
                                           ( pull a string than it is to push it.)
```

Ernie Gregoire

RR 1 Box 221
Canaan, NH. 03741

New England QRP Club, information
available on request by sending me a
S.A.S.E. or via E-mail.

e-mail : GREGOIRE@VALLEY.NET
packet : AA1IK@WA1WOK.FN43FE.NH.USA

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995
From: k2ph@dxis.monroe.pa.us (Bob Schreibmaier)
Subject: [564] Re: QRP philosophical questions
Message-ID: <m0tKTrD-0002TbC@dxis.monroe.pa.us>

> Is QRP into a high-ERP antenna system still QRP? It seems to me that it is
> -- that it's "the QRP right thing to do" to try and get the most out of your
> antenna system. But if my five watts into a good antenna system can crush a
> signal from 100 watts into the infamous "cruddy dipole" am I QRP? If I put 5
> watts into the Aracebo(sp?) dish, am I QRP?

Absolutely! QRP means reduced power. I'm not aware of any Q signal
for "Shall I reduce my antenna?"

At reduced power, it is imperative to have an efficient antenna system.
Otherwise, you make things very tough on the poor clod at the other
side of the QS0. 8^{}

72.5 (yes I ran 100 watts in the contest -- sue me),
Bob

--
+-----+
Bob Schreibmaier K2PH	E-MAIL: k2ph@dxis.monroe.pa.us
(a.k.a. "The QRPer")	ICBM: 40o55'N 75o30'W
Kresgeville, PA	DX Is! Be a Believer!
+-----+

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995
From: V\$BCIESLAK@china.qgraph.com

Subject: [565] RE: QRP philosophical questions
Message-ID: <01HY6BV8WJ8Y015P5M@hub.qgraph.com>

Your still only supplying 5 watts to the antenna...whether your antenna spreads that power out over 360 degrees or points it all in one direction your still only using 5 watts. So I don't think antennas should play into the picture either.

Brian AE9K

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995
From: jcumming@clark.dgim.doc.ca (Jim Cummings)
Subject: [566] Re: QRP philosophical questions
Message-ID: <9511281753.AA01371@clark.dgim.doc.ca>

>To: ptaber@logiccraft.com
>From: jcumming@clark.dgim.doc.ca (Jim Cummings)
>Subject: Re: QRP philosophical questions

>

>>An exchange of mail has left me with a couple of philosophical questions I
>>wanted to put up for comment because I'm confused about them in general.
>>This isn't bait or ax-grinding, I'm just not settled in my mind about them.
>>I'll indicate my overall leaning, but I could really accept answers either
>>way as reasonable.

>>

>>Is QRP into a high-ERP antenna system still QRP? It seems to me that it is
>>-- that it's "the QRP right thing to do" to try and get the most out of your
>>antenna system. But if my five watts into a good antenna system can crush a
>>signal from 100 watts into the infamous "cruddy dipole" am I QRP? If I put 5
>>watts into the Aracebo(sp?) dish, am I QRP?

>>

Wasn't this old chestnut debated beforehand about a year ago... I guess
what comes around, goes around... oh well....

Well, let's look at this perspective at the other end of the spectrum
then... Let's say that instead of connecting your rig to that huge monster
of a dish, you connect up to a dummy load. If using a high gain antenna was
to be forbidden because it would not be "in the spirit of QRP", then it
would follow that we would all be using dummy loads to talk to each other
because that would be "most in keeping with the spirit of QRP". This would
be a far-fetched conclusion. Therefore, the use of high gain antenna would
not violate the spirit of operating QRP. Otherwise we would be endlessly
debating the merits and demerits of various antennae - it ain't worth it.

>

>>If I'm listening for the fox, but don't hear him and someone asks if the

>>frequency is in use, what's the Right Answer? To my mind, if I've heard him
>>and am just waiting my turn, the freq is in use. If I haven't heard him yet,
>>it's not.
>>

I agree.

>>
>>>>>==>PStJTT
>>
>>=====

>>Patrick Taber	Email: ptaber@logiccraft.com
>	
>	
>	

=====

Jim Cummings
eMail:jcumming@clark.dgim.doc.ca
packet:VE3XJ@VE3JF.#EONT.ON.CA.NOAM
73 and live better digitally
DON'T GET TOO EXCITED...
because remember, today is the first
day of the rest of your life.

=====

From qrp-l@lehigh.edu Wed Nov 29 03:11:00 1995
From: prvalko <prvalko@Oakland.edu>
Subject: [567] Re: QRP philosophical questions
Message-ID: <Pine.OSF.3.91.951128125330.31878B-1000000@saturn.acs.oakland.edu>

On Tue, 28 Nov 1995, Pat Taber wrote:

> Is QRP into a high-ERP antenna system still QRP?

Yup. Though in MY opinion it is not in the SPIRIT of QRP, to do more,
with less. You'll notice a few organizations print what antenna was
used during QRP contests.

> If I'm listening for the fox, but don't hear him and someone asks if the
> frequency is in use, what's the Right Answer?

If there is not a QSO in progress, I'd say nothing.

> To my mind, if I've heard him and am just waiting my turn, the freq is

> in use.

Sure it is, send "yes"

73 =paul= wb8zjl FOX TONIGHT 9-11pm EST 0200z-0400z

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995
From: cebik@UTKVX.UTCC.UTK.EDU
Subject: [573] Re: QRP philosophical questions
Message-ID: <Pine.PMDF.3.91.951128144325.543713956C-100000@utkvx.utk.edu>

On Tue, 28 Nov 1995, Pat Taber wrote:

>
> Is QRP into a high-ERP antenna system still QRP? It seems to me that it is
> -- that it's "the QRP right thing to do" to try and get the most out of your
> antenna system. But if my five watts into a good antenna system can crush a
> signal from 100 watts into the infamous "cruddy dipole" am I QRP? If I put 5
> watts into the Aracebo(sp?) dish, am I QRP?
Pat,

Whether a vertical, dipole, Yagi, or dish, your power from a specific source will be the same. High ERP is measured in a particular direction or at a particular angle from the antenna. However, the total power radiated from the antenna (assuming equal line and hardware losses) will be the same. If I use a dipole with 5 watts, half my power goes east and half west (crudely put), and if the station I work is east, then half my power is QRM only. If you use a beam at 5 watts and point it at the same station, then perhaps 70% of your power goes toward the station, and the rest is distributed QRM--a big QRM reduction. Although this is a simplification, it does illustrate that part of the QRP goal is efficient communications. With more transmit and receive signal strength, you can afford to reduce power further and maintain communication, while my less directive antenna may not permit me that efficiency. We cannot all have expensive highly directive and effective antenna arrays, but we can all continue the search for the most effective antenna our property and budget may allow.

THat, too, is part of QRP work.

-73-
LB, W4RNL

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995

From: Hank Kohl K8DD <k8dd@tir.com>
Subject: [578] Re: QRP philosophical questions
Message-ID: <9511282120.AA06661@sun>

At 11:09 11/28/95 EST, you wrote:

>Is QRP into a high-ERP antenna system still QRP?

Absolutely. Instead of a small 5 watts out, you will have a big 5 watts out.

"It's not the number of watts that you have out, it's the SIZE of the watts."

>But if my five watts into a good antenna system can crush a
>signal from 100 watts into the infamous "cruddy dipole" am I QRP?

Absolutely. Instead of a small 5 watts out, you will have a big 5 watts out.

"It's not the number of watts that you have out, it's the SIZE of the watts."

>If I put 5 watts into the Aracebo(sp?) dish, am I QRP?

See the last two answers!

>If I'm listening for the fox, but don't hear him and someone asks if the
>frequency is in use, what's the Right Answer? To my mind, if I've heard him
>and am just waiting my turn, the freq is in use.

Agree.

>If I haven't heard him yet, it's not.

Depends on what part of the country you are from!

73 Hank

*/
*/ Hank Kohl K8DD k8dd@tir.com
*/ MI-QRP QRP-ARCI G-QRP NorCal
*/ ARRL/LM QCWA/LM QCAO/LM
*/

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995

From: ddonald@vikings.onecomm.com (Dave Donaldson)
Subject: [589] RE: QRP philosophical questions

I have not kept up with the complete thread but keep in mind. 5 watts into a dipole is still 5 watts but 5 watts into a beam with 3 dbd (dipole reference) is now 10 watts ERP. I would still say the OP is QRP because of the 5 watts. On the other hand, I operate with an antenna with limited space. I have a loss in my antenna. I can not be directly compared with someone with a beam. I have to "work harder (better luck?) to get contacts. Moral of the story...I still dream of a beam every night :>).

P.S. I am not trying to say anything should be changed.

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995
From: "Bob Schreibmaier" <k2ph@dxis.monroe.pa.us>
Subject: [579] Re: Re[2]: QRP philosophical questions
Message-ID: <m0tKXdl-0003AVC@dxis.monroe.pa.us>

> >Pat Taber:
> > Is QRP into a high-ERP antenna system still QRP?
>
> >Paul wb8zjl :
> >Yup. Though in MY opinion it is not in the SPIRIT of QRP, to do
> more, with less.

I think you missed one important word. The spirit of QRP is to do more with less POWER. Very different from doing more with less.

Just one man's opinion.

72 (now that the contest is over),
Bob

--

```
+-----+
| Bob Schreibmaier K2PH | E-MAIL: k2ph@dxis.monroe.pa.us |
| (a.k.a. "The QRPer") | ICBM: 40o55'N 75o30'W |
| Kresgeville, PA | DX Is! Be a Believer! |
+-----+
```

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995
From: prvalko <prvalko@Oakland.edu>

Subject: [583] Re: Re[2]: QRP philosophical questions
Message-ID: <Pine.OSF.3.91.951128164203.10664B-100000@saturn.acs.oakland.edu>

On Tue, 28 Nov 1995 RHILTO@acxiom.com wrote:

>> earlier that day, prvalko had said
>>
>> Yup. Though in MY opinion it is not in the SPIRIT of QRP, to do
>> more, with less.
>
> Paul, is that a misprint? I always thought the spirit of QRP was
> to do as much as the big guns while using more appropriate power
> levels...

No Bob, that's not a misprint, it's an opinion. Same as your "thought" regarding the spirit of QRP. I *personally* don't worry about what "the big guns" are doing. I also don't lose any sleep over folks running five watts into a yagi. Heck, I run hundreds of watts into BIG yagis on VHF/UHF.

On HF, with QRP, I just try to do more with less and have fun.

73! =paul= wb8zjl

Tonight's FOX 0200z-0230z 7.110
0230z-0400z 7.040

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995
From: prvalko <prvalko@Oakland.edu>
Subject: [585] Re: Re[2]: QRP philosophical questions
Message-ID: <Pine.OSF.3.91.951128170235.10664D-100000@saturn.acs.oakland.edu>

On Tue, 28 Nov 1995, Bob Schreibmaier wrote:

> > >Pat Taber:
> > > Is QRP into a high-ERP antenna system still QRP?
> >
> > >Paul wb8zjl :
> > >Yup. Though in MY opinion it is not in the SPIRIT of QRP, to do
> > > more, with less.
>
> I think you missed one important word. The spirit of QRP is to do more
> with less POWER. Very different from doing more with less.

Nope. (GEEZ!!! How'd *I* get dragged into this stale debate?) Doesn't the phrase "MY opinion" mean anything???

In my OPINION, QRP is doing more with less everything. Sure, 5 watts OR LESS is the common theme, yet TO ME, I never *really felt* like I was running QRP unless the whole shebang was primitive. Running my Corsair at 5 watts just doesn't give me the same thrill as a Q made on the NorCal 40A+ or an antique Power Mite. BUT MORE IMPORTANT, if you are not making ANY contacts (running into a dummy load at .5 watts) are you having any fun?

Notice the first word I said was, "Yup." I agree that 5w into a hi-gain antenna is still QRP operating. So everyone get of my case... until 0200z tonight when everyone can get on my case as I take to the air as the FOX!!! :-) :-) :-)

73! =paul= wb8zjl

From qrp-l@lehigh.edu Wed Nov 29 03:11:00 1995
From: cebik@UTKVX.UTCC.UTK.EDU
Subject: [554] Re: Time.....Chickadee
Message-ID: <Pine.PMDF.3.91.951128071413.543684786E-100000@utkvx.utk.edu>

On Mon, 27 Nov 1995, Robert J. Gobrick wrote:

> Hank, LB and the QRP-L Gang,
>
> I just saw a Nissan Maxima commercial on the tube - and it had a chickadee
> hatching out of it's egg on the front seat of the Maxima and just like LB
> said - that little chickadee was ditin and dahin away very efficiently. We
> better get this Chickadee copyrighted for the QRPers before the Japanese
> realize what a "hot" marketing commodity they have...
>
> 73/72 "Cheep Cheep" (Chickadee's dit dit)
>
> Bob VO1DRB/WA6ERB

Actually, a freshly hatched chickadee (or any other small bird) is very quiet (lest he be eaten while Mom is out hunting food). A bit later in the nest, they will make very high pitched soft sounds--almost beyond human hearing--to let Mom know they are hungry. Then, when they feel more confident and about ready to fly, they will imitate adult congregating buzzes. All-in-all, not too different from the personal histories of new QRP CW operators.

-73-

LB, W4RNL

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995
From: ddonald@vikings.onecomm.com (Dave Donaldson)
Subject: [558] Re: Time.....Chickadee

Since it sounds like the Chickadee is going to be our mascot, are we going to need someone to dress up as a big Chickadee for the next hamfest, to promote QRP?
Sorry, I'm to tall.

:>)

Dave, WB7DRU

From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995
From: torell@sicom.com (Kent Torell)
Subject: [580] Re: What happened?
Message-ID: <v02130500ace12d51795d@[192.91.202.41]>

```
>          33'          33'
>-----[ ]-----
>          ||
>          || Horizontal
>          || 20' 450ohm ladder
>          ||
>          \ /
>          \   RG-8X
>          -----
>
>My plan backfired. The legs are about 33'
>long. -----
>Using my MFJ259 swr analyzer, the antenna
>is resonant at 29MHz. There is no dip at or
>near 7MHz.
>
```

>What happened?

```
>
>=====
>7.3 de Michael aa0ub | QRP:
>miker@cc.com Norcal #857 CQC #180 | "UR HB 5W FB HR 72"
>=====
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The 450 ladder line acted as an impedance transformer. At 7 MHz, the 20 feet of line is 0.15 wavelengths. Transmission line transformers work normalized to their impedance; at the input, then, it sees $75/450 = 0.17$. On your smith chart, plot the resistive point at 0.17. Then, use a compass to move 0.15 wavelengths toward the generator (clockwise). That point is around $0.4 + j 1.4$, or $180 + j630$ ohms. This gives you a very high mismatch into your coax cable.

At 29 MHz, a wavelength is 34 feet, and the transmission line looks like 0.62 wavelengths. A 0.5 wavelength transmission line does nothing to the impedance; it is like making a full circle of the smith chart. So, it is equivalently 0.12 wavelengths long. This will match a high impedance, capacitive load.

Suggestions? Well, you could go to a half wavelength ladder line (66 feet) and it won't do anything to the impedance (just adds loss). You could shorten the radiators to make the antenna look capacitive, until it gets closer to matching. Or, rethink your support system so you can get the coax to the feed point. A one to one balun is a good idea here.

Antennas what a lot of fun (hi).

72, KJ7EY

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From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995
From: Alan Kaul <kaul@netcom.com>
Subject: [582] Re: What happened?
Message-ID: <Pine.3.89.9511281337.A19379-01000000@netcom21>

Michael ... I'm no expert. But, I think it might be possible that your ladder line is acting like a transformer. I cannot explain the lack of a dip at 7mHz, but I would presume that you are coupling something that is 50 ohms to the transformer at a point where the transformer is something considerably more than 50-ohms. We know a couple of things about using ladder line as a transformer-----1) an odd number of quarter wave lengths, when shorted AT the feed end, will have a point very NEAR the feed end where an absolute match can be found for 50 ohms. And 2) an odd number of half wave lengths will exhibit an input impedance which equals

the output impedance, i.e. if the antenna end is 50 ohms and a 1/2 wave 450-ohm matching section is used, the feed end should also be 50 ohms. HOWEVER, please remember things like velocity factors while calculating lengths of the matching section (transformer). There is also another possibility -- find a high impedance point along the ladder-line (you may have selected it already) where it is near the actual line impedance (450 ohms or whatever). At that point, attach a 9 to 1 balun which will transform the 450-to-50 ohms. Baluns are featured in a number of recent articles in magazines (including CQ) and Jerry Sevick, whose call escapes me, has recently published a book on baluns. The ARRL Handbook and several databooks as well as the low-band DX book by ON4UN (version one) also explain how to make 9-to-1 baluns.

If it were me I might choose an even simpler solution --- using miniature coax for the 20-foot vertical portion (I bet you can find some that weighs even less than ladderline). Of course, it might be lossy, but for 20 feet who is likely to notice?

Good luck, alan

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From qrp-1@lehigh.edu Wed Nov 29 03:11:00 1995
From: "rohre" <rohre@arlut.utexas.edu>
Subject: [584] RE: What happened?
Message-ID: <n1394548207.68448@msmailgw1.arlut.utexas.edu>

Mike,

You ended up with a "short" ladder line version of a G5RV, which Icom published in a tech note some years back, and the combination of 33 foot legs was already at the bottom end of 40M resonance, then you placed the 450 ohm ladder line at the 50 to 72 ohm feed point, (depending on height of the feed, the impedance varies), and then you went to 52 ohm coax. What you have is a SWR peak probably at the end of your coax where you measured with the MFJ. I would expect you to have a resonance below 40M, with this set up, and other resonances as a complex combination of the 450 ohm line and coax. The reason you have high SWR is the 450 ohm line section is too short to be a transmission line transformer at 40M in the manner of the ICOM tech note short G5RV. However, it is about a halfwave somewhere around 10M, thus it does repeat the coax and dipole impedance to each other, and you get a nice resonance out of the gain antenna for 10M formed by the two 33 foot legs of the dipole. (Each side there is about three quarter wave on 11M, so the center is low impedance at 11M or 10M.) A half wave transmission line of any impedance connected there should repeat the low impedance to the other end (measured at that frequency), where you connected the RG 8X, which is also a

low impedance characteristic.

Learn to think of dipoles as combinations of $1/4$ and $1/2$ waves for frequencies higher than what the overall dipole was cut for, and you will see why a resonance may be on a higher band as well.

WHAT you DID was series a mismatched pair of transmission lines for 40M. Now, if you lengthened the 450 to the amount ICOM shows in their tech note, you would recreate a true approximate half G5RV, with slightly long dipole legs. The ICOM version was good for 40M and up, excluding WARC bands, if I remember correctly, and a "Classic" or True G5RV is a 102 foot dipole, and can be used with feeder sides tied together on 80M, and as a dipole for 40M and up, having gain on 20 and 10M. It also did not hit WARC bands with low SWR, unless shortened to a 90 foot total dipole. Bill Orr's column in CQ has covered these several times. The WARC and other band version is called a ZS6BKW version, I think.

What would get you out of this fix is to add a 4:1 balun at the junction of the ladder line and the coax. I take it you wanted to achieve a 40M resonance as your main goal. The balun kind of undoes your light weight goal. If the ladder line was brought close to a large mass of metal without having a twist in it, it might also be coupling to the metal mass, like a tin roof, etc.

Ladder line is fine to use for all the feedline, then at a convenient point like under the eaves of the house, mount a balun (4:1 or more) and go from 450 ohm ladder to coax like RG8x on into the shack. Or go straight to the balun output on your tuner with the ladder line. You can install a wood piece under even a metal window sash to pass the ladder line through. See Fred Bonavita's articles on using balanced feedlines in CQ a few years ago, and in other QRP publications.

What would be interesting is to measure the end of the 450 line without the coax on it; and see what impedance the short twin line has transformed the dipole center to and then you will understand the high SWR and lack of 40M resonance. It is possible the 450 is only acting as part of the flat top of the dipole, but "squished" vertically, and causing interaction of the halves because of close spacing.

Bottom line on all this is you normally connect ALIKE characteristic impedance transmission lines together. Ladder line is 450 ohms, unlike 52 ohm RG 8X. To connect such you must have a Matching transformer, either a lumped coil balun type, or make the Ladder line the electrical length of a transmission line transformer for the frequency for which the dipole was designed.

Hope that helps,
-Stuart K5KVH
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